

2000

Field Trip Guide (for the Nebraska well Drillers Association) Eastern Nebraska Geology

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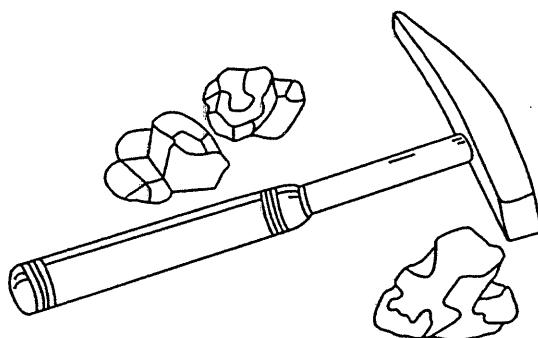
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FIELD TRIP GUIDE

(for the Nebraska Well Drillers Association)

EASTERN NEBRASKA GEOLOGY

**Scott Summerside, Duane Eversoll,
Mark Kuzila and Matt Joeckel**



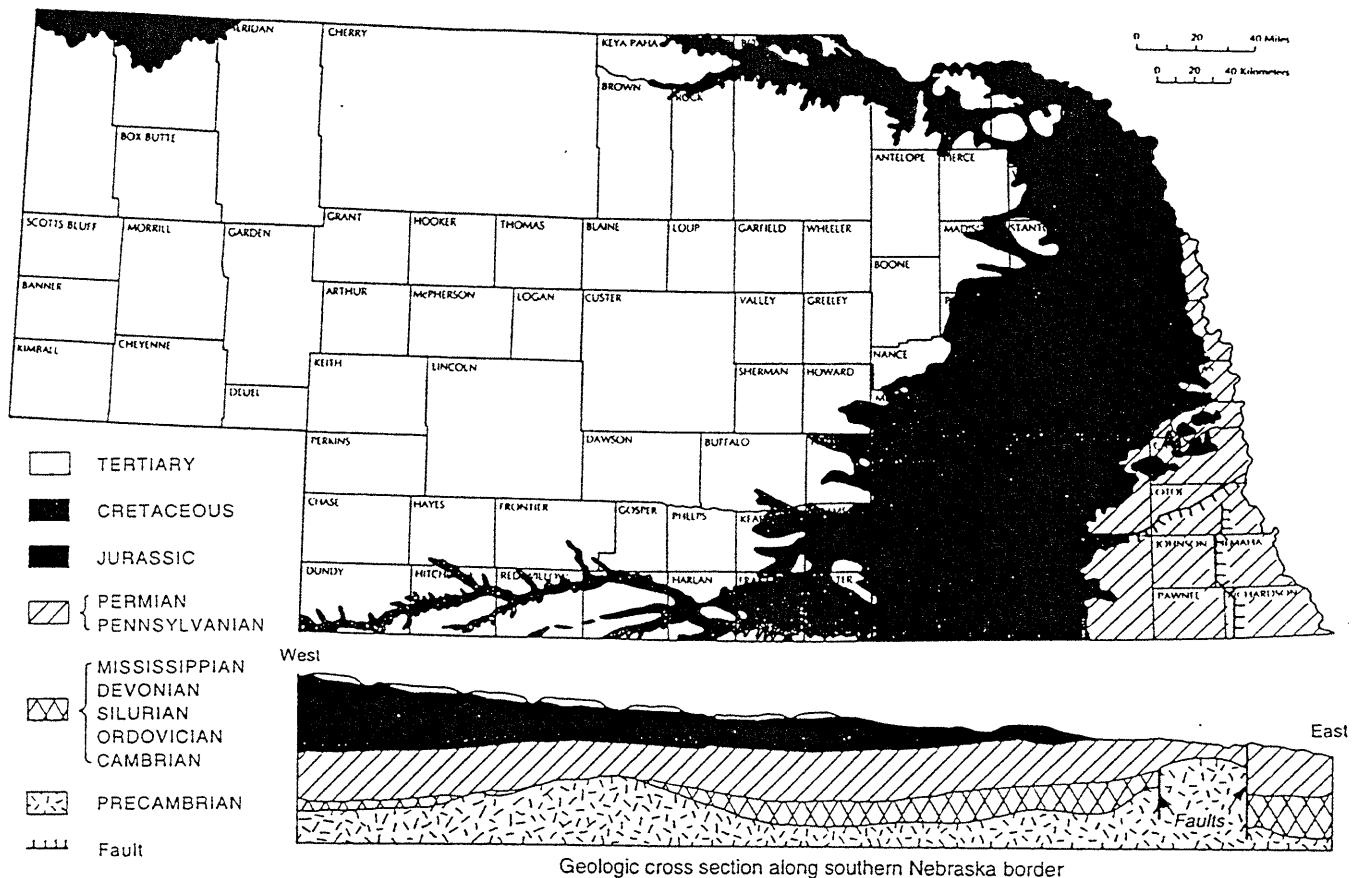
NEBRASKA GEOLOGICAL SURVEY

**Conservation and Survey Division
Institute of Agriculture and Natural Resources
University of Nebraska-Lincoln**



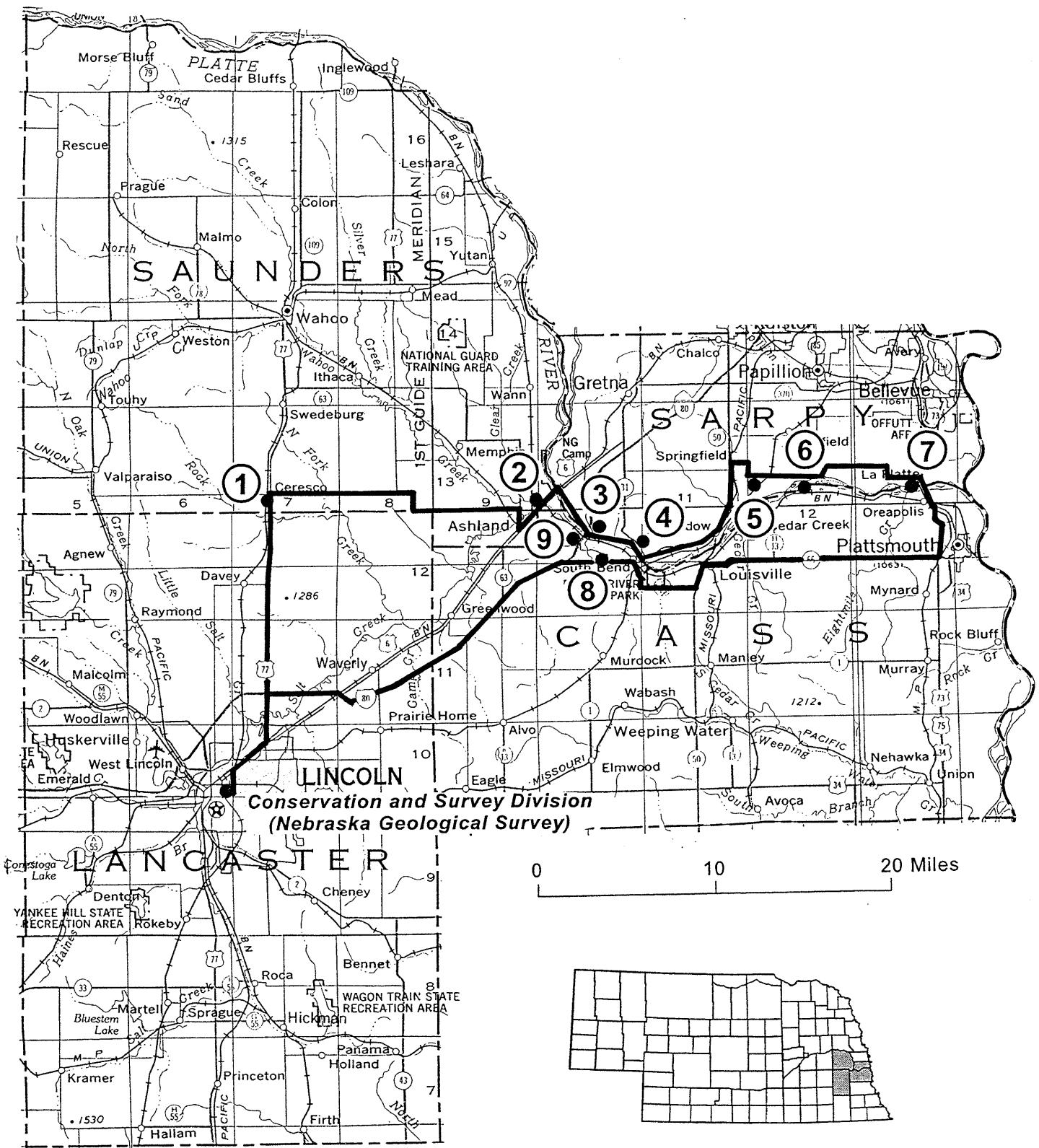
September 14, 2000



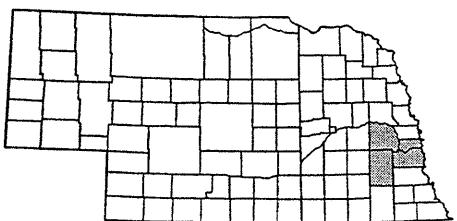
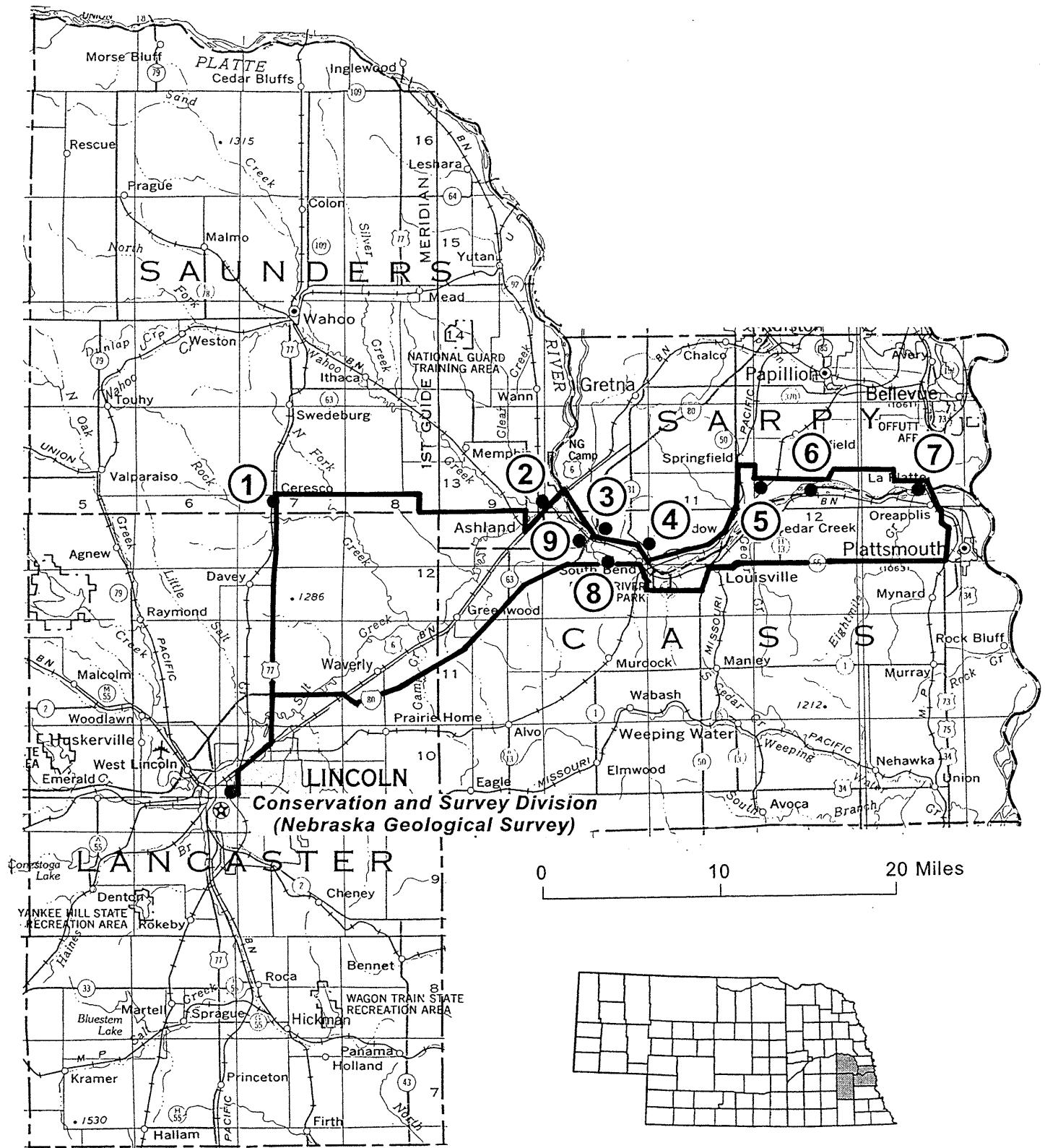


AGE	GEOLOGIC TIME UNITS	ROCK TYPES	MINERAL RESOURCES AND PRODUCTS
BILLIONS OF YEARS AGO	CENOZOIC (recent life)	QUATERNARY (Recent and Pleistocene)	Glacial till, silt, clay, sand, gravel, volcanic ash.
		TERTIARY	Sandstone, siltstone, clay, gravel, marl, volcanic ash.
	MESOZOIC (middle life)	CRETACEOUS	Chalk, chalky shale, dark shale, varicolored clay, sandstone, conglomerate.
		JURASSIC	Subsurface only. Sandstones and shales.
		TRIASSIC	
	PALEOZOIC (ancient life)	PERMIAN	Shale, limestone, dolomite, gypsum, anhydrite sandstone, siltstone, chert.
		PENNSYLVANIAN	Limestone, shale, sandstone, coal.
		MISSISSIPPAN	Subsurface only. Limestone, dolomite.
		DEVONIAN	Subsurface only. Dolomite, gray shale.
		SILURIAN	Subsurface only. Dolomite.
	CRYPTOZOIC (hidden life)	ORDOVICIAN	Subsurface only. Dolomite, sandstone, shale.
		CAMBRIAN	Subsurface only. Dolomite, sandstone.
5000?	PRECAMBRIAN	Subsurface only. Granite, other igneous rocks, and metamorphic rocks.	

Geologic bedrock map and geologic time chart of Nebraska.

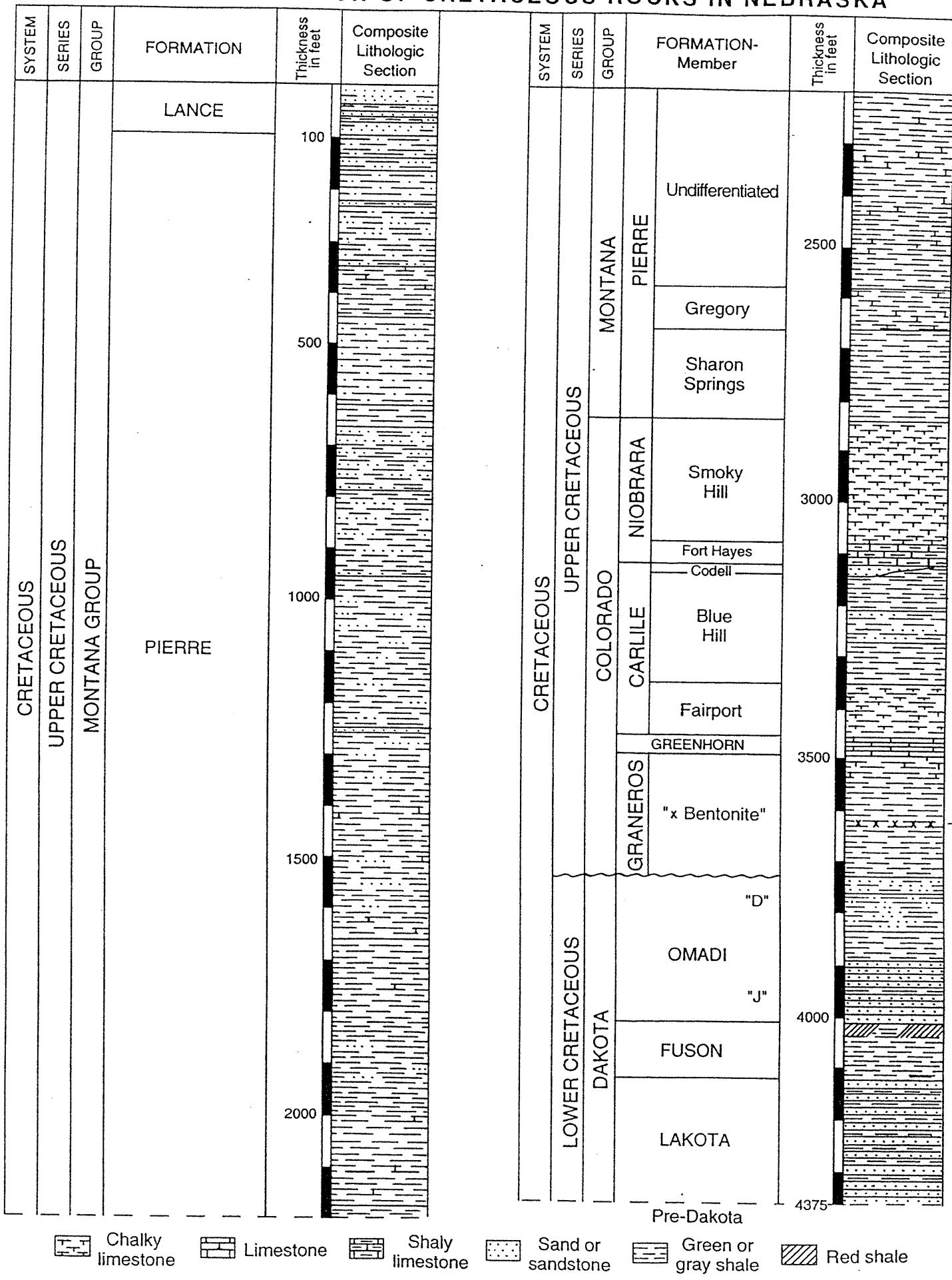


Index map showing location of stops



Index map showing location of stops

COMPOSITE SECTION OF CRETACEOUS ROCKS IN NEBRASKA



 Chalky
limestone

Limestone

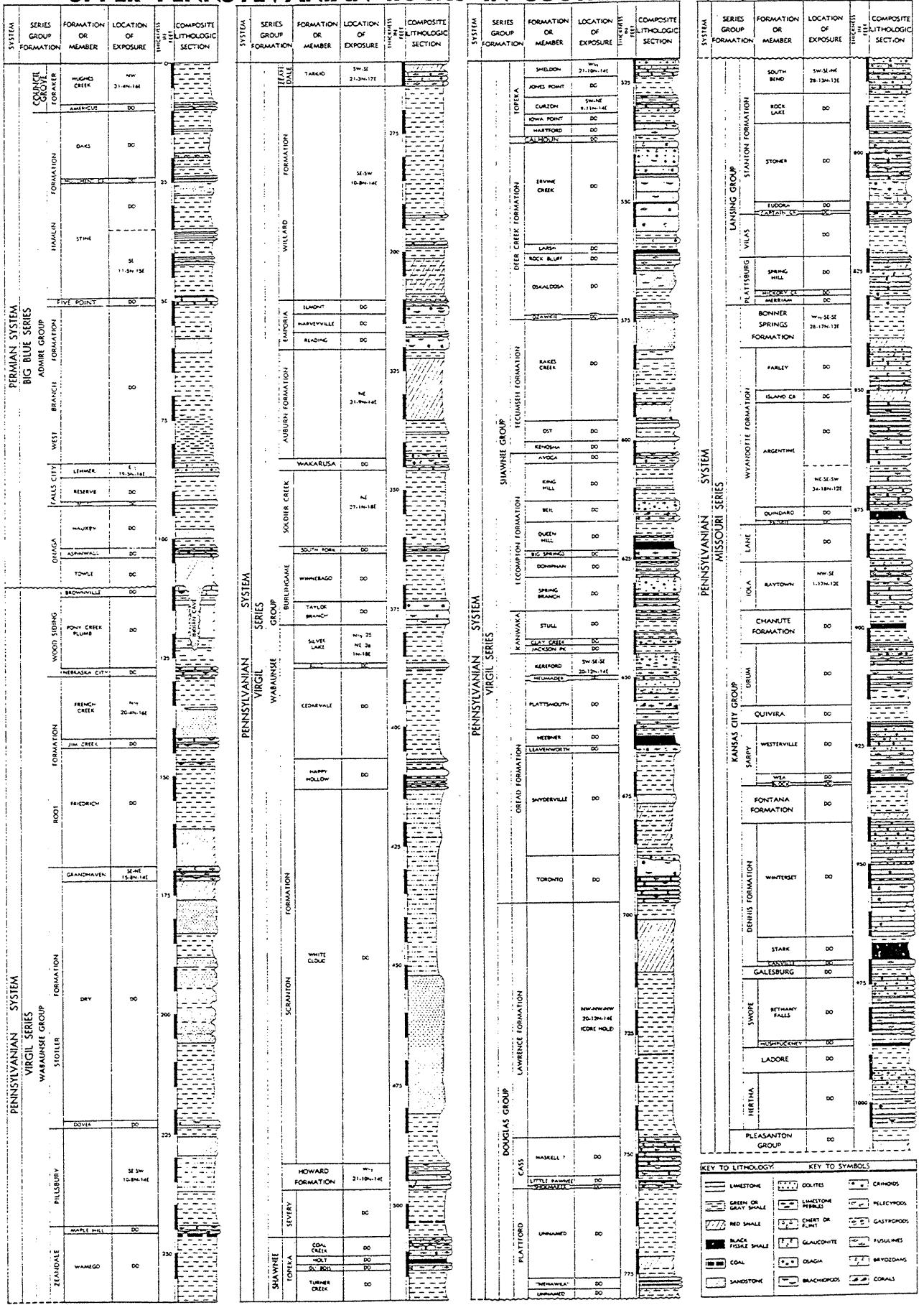
 Shaly
limestone

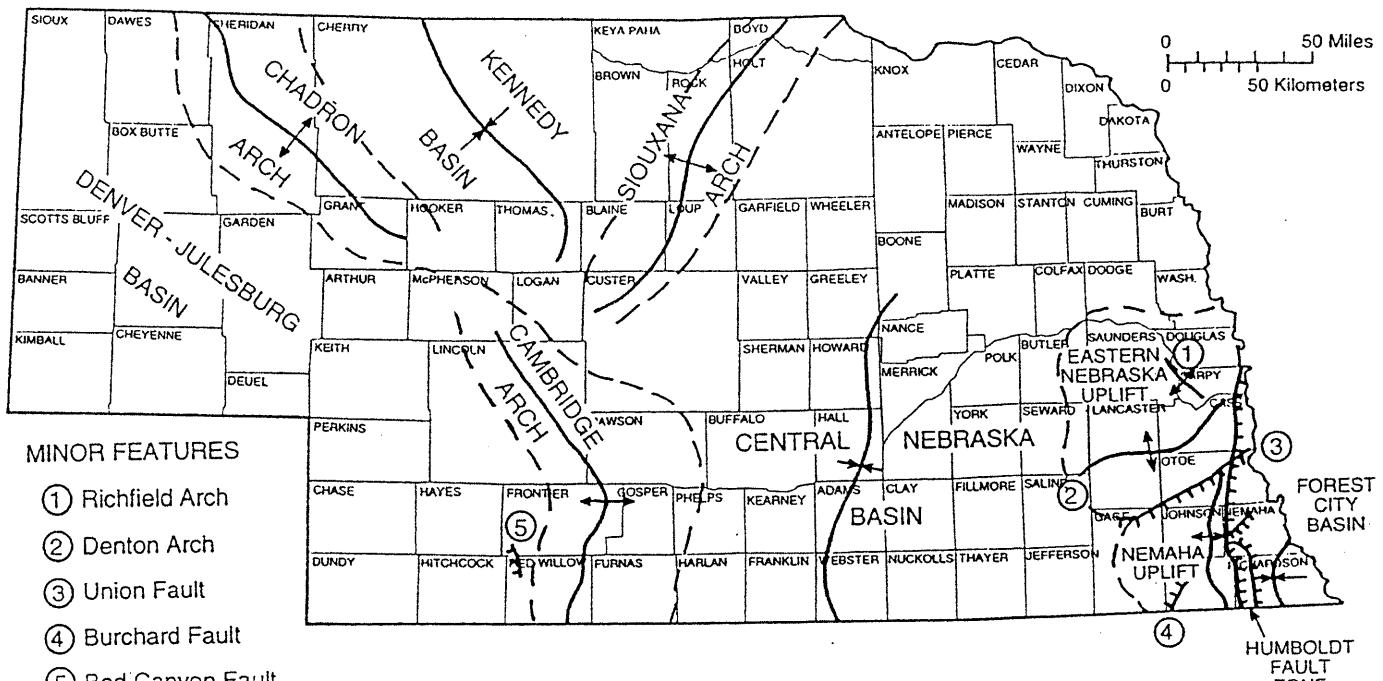
 Sand or sandstone

 Green or gray shale

 Red shale

COMPOSITE SECTION OF OUTCROPPING LOWER PERMIAN AND UPPER PENNSYLVANIAN ROCKS IN SOUTHEASTERN NEBRASKA





Principal structural features in Nebraska.



Locations of sand and gravel deposits at or near the surface in Nebraska.